

## Patent Abstracts of Japan

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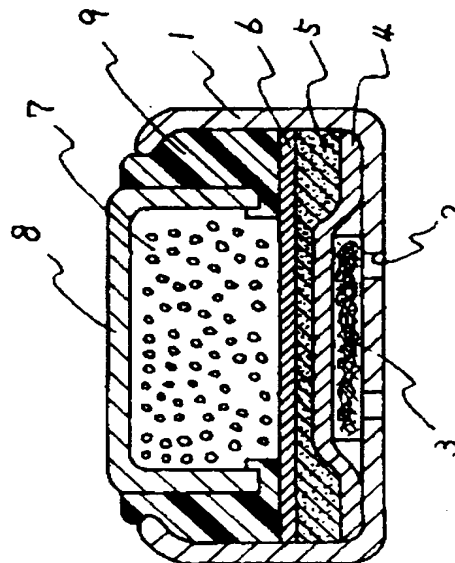
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TITLE : ALKALINE BATTERY



ABSTRACT : PURPOSE: To increase leakage resistance of alkaline battery by forming an anode active mix with zinc powder, alkaline electrolyte, and gelling agent of copolymer of acrylic acid and vinyl alcohol.

CONSTITUTION: An anode active mix 7 is prepared by kneading 72pts.wt. zinc power having a particle size of 48~150 mesh, and an amalgamation ratio of 7%, 24pts.wt. 40% potassium hydroxide, and 4pts.wt. gelling agent of copolymer of acrylic acid and vinyl alcohol, and filled in an anode case 8. The anode case 8 is combined with a separator 6, a positive catalyst layer 5, a water repellent film 4, and a positive case 1 having air access holes 2, and they are sealed to form a button type zinc air battery. Copolymer of acrylic acid and vinyl alcohol has a property stable to alkaline electrolyte same as sodium acrylate, and also has no stringiness. Therefore, leakage resistance of the battery is substantially increased.

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